

Title (en)
FIBER-REINFORCED THERMOPLASTIC RESIN COMPOSITION, REINFORCING FIBER BUNDLE, AND PROCESS FOR PRODUCTION OF FIBER-REINFORCED THERMOPLASTIC RESIN COMPOSITION

Title (de)
FASERVERSTÄRKTE THERMOPLASTISCHE HARZZUSAMMENSETZUNG, VERSTÄRKENDES FASERBÜNDEL UND VERFAHREN ZUR HERSTELLUNG EINER FASERVERSTÄRKTEN THERMOPLASTISCHEN HARZZUSAMMENSETZUNG

Title (fr)
COMPOSITION DE RÉSINE THERMOPLASTIQUE RENFORCÉE PAR DES FIBRES, FAISCEAU DE FIBRES DE RENFORT, ET PROCÉDÉ DE PRODUCTION D'UNE COMPOSITION DE RÉSINE THERMOPLASTIQUE RENFORCÉE PAR DES FIBRES

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Abstract (en)
[origin: EP2530124A1] The present invention relates to fiber-reinforced thermoplastic resin composition comprising 0.1 to 10 mass% of a (meth)acrylic-based polymer, 1 to 70 mass% of reinforcing fiber, and 20 to 98.9 mass% of thermoplastic resin, wherein the (meth)acrylic-based polymer has, in a side chain, at least one functional group selected from a hydroxyl group, a carboxyl group, an amide group, and an urea group, and has a cohesive energy density (CED) of 385 to 550MPa. The present invention provides, particularly in the case of using a polyolefin-based resin as matrix resin, a fiber-reinforced thermoplastic resin composition and a reinforcing fiber bundle which have high adhesiveness and good mechanical characteristics.

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Citation (search report)
• [A] US 2009143524 A1 20090604 - NAKAYAMA YOSHIFUMI [JP], et al
• [A] GB 1383212 A 19750205 - COMMISSARIAT ENERGIE ATOMIQUE
• [A] DATABASE WPI Week 200545, Derwent World Patents Index; AN 2005-438394, XP002708719
• See references of WO 2011093297A1

Cited by
EP2754685A4; EP2671991A4; EP2803693A4; US9855689B2; US8946342B2; EP2813532A1

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